

TARGET 1C

Name ANSWER KEY Date _____

Name the most specific subset of the real numbers to which each number belongs.

1. $\frac{3}{4}$ RATIONAL

2. -8 INTEGER

3. 2π IRRATIONAL

4. $45,368$ NATURAL

5. $\sqrt{11}$ IRRATIONAL

6. $-\frac{2}{3}$ RATIONAL

7. $\frac{12}{18}$ RATIONAL

8. -5 INTEGER

9. π IRRATIONAL

10. 5564 NATURAL

11. $\sqrt{13}$ IRRATIONAL

12. $-\frac{4}{3}$ RATIONAL

Simplify each expression.

13. $\sqrt{144} = 12$

14. $\sqrt{25} = 5$

15. $\sqrt{169} = 13$

16. $\sqrt{49} = 7$

17. $\sqrt{0.01} = 0.1$

18. $\sqrt{0.49} = 0.7$

Estimate the square root. Round to the nearest integer.

19. $\sqrt{38}$ A LITTLE MORE THAN 6

20. $\sqrt{65}$ A LITTLE MORE THAN 8

21. $\sqrt{99}$ A LITTLE LESS THAN 10

22. $\sqrt{145.5}$ A LITTLE MORE THAN 12

Compare the numbers in each exercise using an inequality symbol. ($<$, $>$, \leq , \geq)

23. $\sqrt{36}, \sqrt{49}$

24. $\frac{1}{3}, \sqrt{1.25}$

$\sqrt{36} < \sqrt{49}$

$\frac{1}{3} < \sqrt{1.25}$